

Title (en)  
OPEN EAR CANAL HEARING AID

Title (de)  
HÖRGERÄT FÜR EINEN OFFENEN GEHÖRGANG

Title (fr)  
PROTHÈSE AUDITIVE POUR CONDUIT AUDITIF OUVERT

Publication  
**EP 3355594 B1 20221005 (EN)**

Application  
**EP 18161839 A 20100721**

Priority  
• US 22743709 P 20090722  
• US 22857109 P 20090725  
• US 22858809 P 20090726  
• EP 10802873 A 20100721  
• US 2010042810 W 20100721

Abstract (en)  
[origin: US2011019851A1] The invention provides systems and methods for providing hearing aid. An open ear canal hearing aid may be provided in accordance with an embodiment of the invention. The hearing aid may include a part that contains electronic components, a passive amplifier, and a securing mechanism. The securing mechanism may include bristles or balloons. The securing mechanism may have various configurations and be adjustable. In some embodiments, the hearing aid may transmit sound via bone conduction and air conduction.

IPC 8 full level  
**H04R 25/00** (2006.01); **A61F 2/18** (2006.01)

CPC (source: EP KR US)  
**H04R 1/42** (2013.01 - KR); **H04R 25/02** (2013.01 - US); **H04R 25/456** (2013.01 - EP KR US); **H04R 25/48** (2013.01 - US);  
**H04R 25/606** (2013.01 - EP KR US); **H04R 25/652** (2013.01 - EP KR US); **H04R 25/656** (2013.01 - EP KR US); **H04R 25/658** (2013.01 - KR);  
**H04R 1/42** (2013.01 - EP US); **H04R 25/604** (2013.01 - US); **H04R 25/658** (2013.01 - EP US); **H04R 2225/0213** (2019.04 - KR);  
**H04R 2225/023** (2013.01 - EP US); **H04R 2460/09** (2013.01 - EP KR US); **H04R 2460/11** (2013.01 - EP KR US);  
**H04R 2460/13** (2013.01 - EP KR US); **H04R 2460/17** (2013.01 - EP KR US)

Citation (examination)  
• US 2007127757 A2 20070607 - DARBUT ALEXANDER L [US], et al  
• "MONKBOT": "Ear canal - Wikipedia", WIKIPEDIA, 19 September 2019 (2019-09-19), Internet, XP055645595, Retrieved from the Internet  
<URL:https://en.wikipedia.org/wiki/Ear\_canal> [retrieved on 20191122]  
• JAMIE ALLSOP ET AL: "Hearing Aids Sizes - Hearing Direct", 18 March 2014 (2014-03-18), Internet, XP055645606, Retrieved from the Internet  
<URL:https://www.hearingdirect.com/blog/hearing-aids-sizes.html> [retrieved on 20191122]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**US 2011019851 A1 20110127; US 8457337 B2 20130604**; CN 102498730 A 20120613; CN 102498730 B 20150826; EP 2457387 A2 20120530;  
EP 2457387 A4 20130123; EP 2457387 B1 20180912; EP 3355594 A1 20180801; EP 3355594 B1 20221005; JP 2013500626 A 20130107;  
JP 5765786 B2 20150819; KR 101693066 B1 20170117; KR 20120068828 A 20120627; SG 10201406058Y A 20141127;  
SG 179552 A1 20120530; US 2013266168 A1 20131010; US 2014294213 A1 20141002; US 2015086054 A1 20150326;  
US 2016323682 A1 20161103; US 8577067 B2 20131105; US 9060230 B2 20150616; US 9866978 B2 20180109; WO 2011011555 A2 20110127;  
WO 2011011555 A3 20110414

DOCDB simple family (application)  
**US 84112010 A 20100721**; CN 201080038991 A 20100721; EP 10802873 A 20100721; EP 18161839 A 20100721; JP 2012521765 A 20100721;  
KR 20127003742 A 20100721; SG 10201406058Y A 20100721; SG 2012005096 A 20100721; US 2010042810 W 20100721;  
US 201313865717 A 20130418; US 201314032310 A 20130920; US 201414291424 A 20140530; US 201615195100 A 20160628